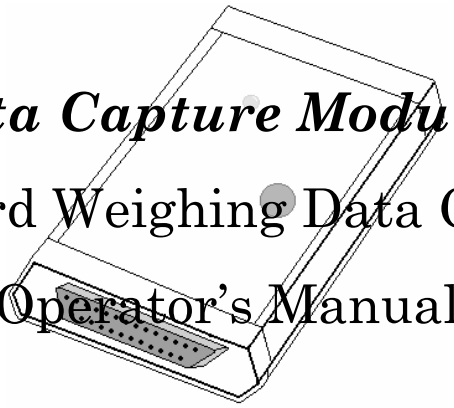
NORAC®
WEIGHING AND CONTROL SYSTEMS



Data Capture Module™

OnBoard Weighing Data Capture

Operator's Manual

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NORAC Systems International Inc. reserves the right to improve products and their specifications without notice and without the requirement to update products sold previously. Every effort has been made to ensure the accuracy of the information contained in this manual. The technical information in this manual was reviewed at the time of approval for publication.

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1.0 Introduction

Features

The Data Capture Module is an accessory for NORAC's OnBoard Weighing System. It will electronically record up to 500 transactions on your OnBoard scale. By recording scale transactions electronically you can ensure that all product is accounted for and invoiced properly. Further, by reviewing the transaction times, dates, and product flow rates you can also assess the productivity and efficiency of your equipment and people.

A summary of the transaction records stored in the Data Capture Module can be printed directly on the ticket printer in the OnBoard control box. These reports detail the amount of product loaded and unloaded for each day the unit is used. Further, the Data Capture Module can be easily removed from the OnBoard control box and connected to a personal computer (PC). Then these detailed transaction records can be uploaded to the PC for further processing and reporting. In order to upload the records to a PC you need NORAC's PC Upload Option (see Section 4.0).

Package

The basic package consists of a header frame unit and the removable module, as shown below. The header frame is installed in the printer compartment of the OnBoard control box.

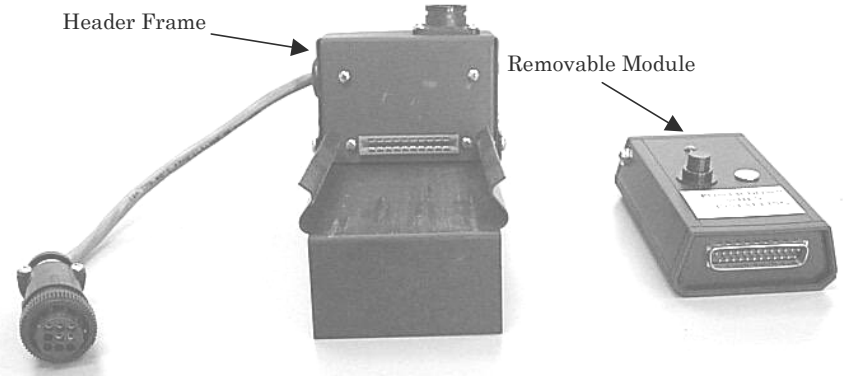


Figure 1: Basic Package

2.0 Installation

Header Frame

The header frame should be mounted on the left side of the ticket printer in the control cabinet. The front edge will fit between the bottom foam and the front panel. The back edge will fit between the back foam and the bottom foam.

A self-tapping screw may be used to secure the front edge of the header frame to the panel of the control cabinet.

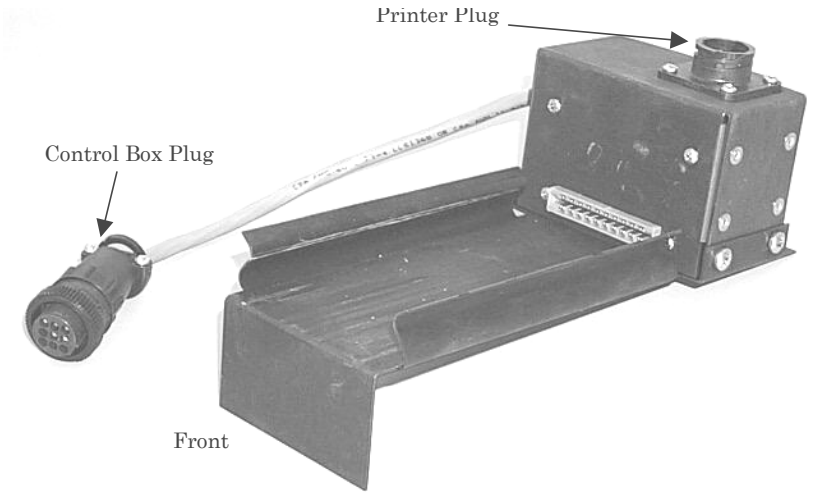


Figure 2: Header Frame

Printer Connection

Disconnect the existing printer cable from the top of the printer compartment. Re-connect the printer cable to the panel mount connector on the header frame. Connect the in-line cable from the header frame to the original printer socket at the top of the printer compartment.

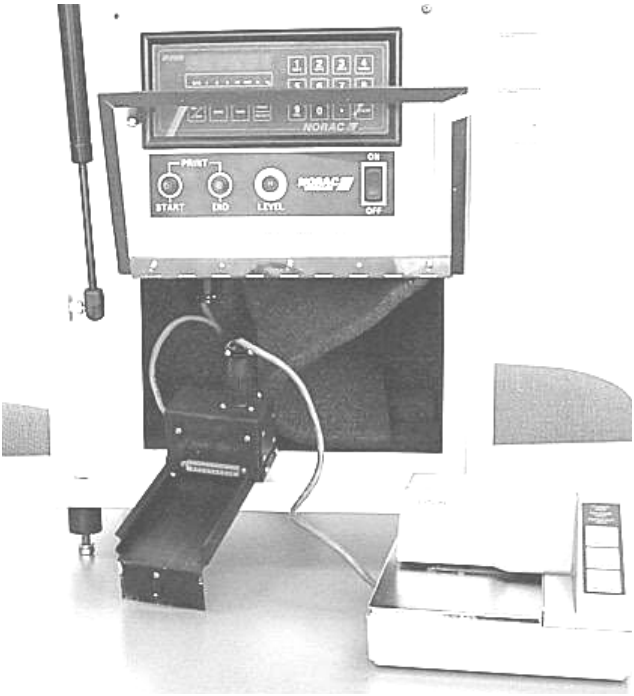


Figure 3- Connecting the System

Insert paper into the printer and push the START button on the OnBoard control panel. Printing should occur if the cable has been connected properly.

Data Capture Module

NOTE: Before installing or removing the Data Capture Module, ALWAYS power down the system first.

One end of the Data Capture Module has a printed circuit board edge connector. After powering down, slide the edge connector into the header frame guide and push it all the way in until the edge connector is plugged in firmly.

Turn on the main control panel power switch, and check that the LED is ON.

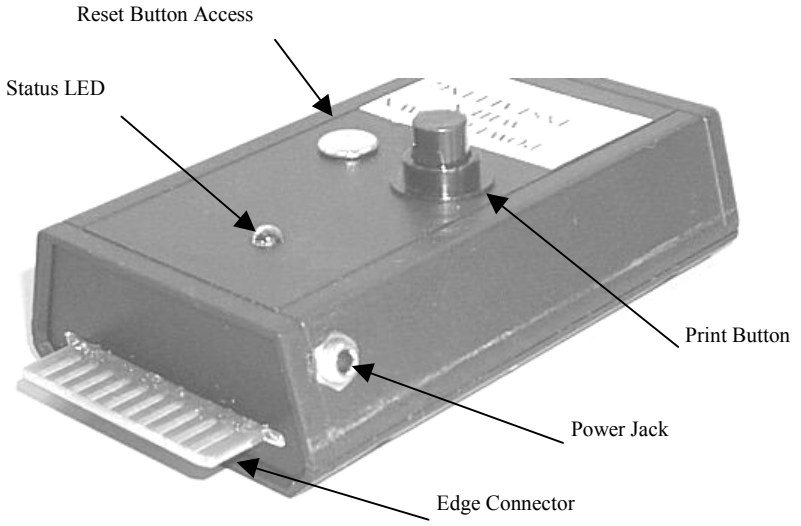


Figure 4 - Data Capture Module

3.0 Operation

LED

The removable module receives power through the edge connector. The LED will be ON to indicate a ready condition. The LED will be flashing whenever data is coming in from the main control box, or when the unit is busy preparing for printing.

Print

Each load or delivery will automatically be printed after the transaction is complete. The print button is used to print daily transaction reports (and not to print individual transactions). A sample report is shown on the right. The report is divided into sections by the ID, which can be set through the control box (see the *OnBoard Weighing System* manual, P/N 42334). To print transactions from the previous day, wait for the current day's transaction report to finish printing, and press the print button again. You may continue printing previous days until there are no more previous days left. At this point, the printer will

```
****************************
ID: 1911
Date:       Sep 01, 2000
START AT:      2000 KGS
1     14:15 LOAD       4000 KGS
        :25 MIN @    162 KG/MIN
2     15:03 DELIVERY   3623 KGS
        :23 MIN @    160 KG/MIN
3     15:40 DELIVERY   2277 KGS
        :15 MIN @    164 KG/MIN
END AT:         100 KGS
****************************
TOTAL LOADED           4000 KGS
TOTAL DELIVERED        5900 KGS
ERROR                     0 KGS
****************************
```

print, "NO TRANSACTIONS FOUND". Before printing a report, make sure there is enough paper. To give you time to change paper, the module will wait up to three minutes for you to print a previous day before resetting to print the most recent transaction day (turning the power OFF then ON will also do this).

NOTE: The module will automatically skip days on which there were not any transactions.

NOTE: You may not print in the middle of a transaction.

Reset

To clear all the stored transactions, put a piece of paper into the printer. Use a small pencil eraser or the handle of a small screwdriver to push on the recessed Reset Button through the hole opening*. The button should be pushed for 2 seconds. The LED will flash to indicate clearing in progress. When the clearing is done, it will print "Clearing done Version XX" to the printer.

Jack

In order to upload the stored information to a PC, the removable module must be removed from the header. Power must be supplied to the module through the jack. A 110Vac to 9Vdc adapter is provided with the option kit.

* A snap cap is provided to cover this hole opening.

D Connector

The removable module can be connected to a PC communication port using a null modem cable (supplied with the PC Upload option) through the D connector at the end of the module.

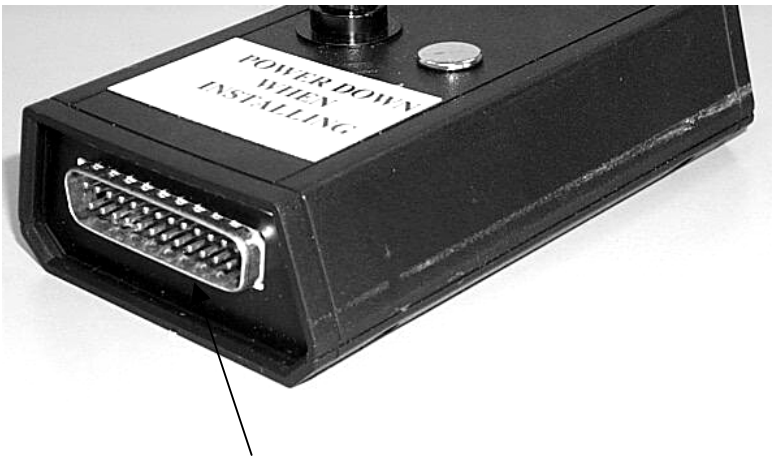
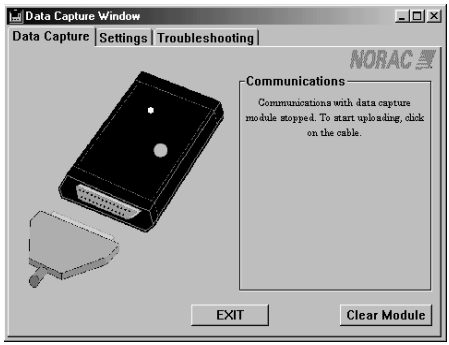


Figure 5 - 25 Pin D connector (Computer)

4.0 PC Upload Option (42343)

The PC Upload Option allows you to use the Data Capture Module to its full potential. The Data Capture Module stores up to 500 transactions, which can be transferred to a computer quickly and seamlessly. The Data Capture Software (included in this option) will download all transactions at the click of a button, and create a detailed, customized report within seconds. If your organization has multiple stations, you can even generate station reports from headquarters. And if you need that extra degree of freedom, the Data Capture Software also allows you to export to most popular spreadsheet software (such as *Microsoft Excel*), where data can be converted into concise and meaningful graphs and charts, among other things.



If you would like to try a demonstration version of the software (which does not actually communicate with the Data Capture Module), please contact your NORAC Sales Representative. The PC Upload Option includes the following:

- One null modem cable
- One power adapter
- PC Upload Software (full version) and Manual

Refer to the Data Capture Software's user manual for details.

5.0 Trouble Shooting

NO POWER

1.0 If the Data Capture Module's LED is off when the power is ON for the NH3 system, check that the module is plugged in completely. Check the connection of the in-line cable with the original printer socket. If all the connections are secure, but the unit still does not function, contact your NORAC Service representative for further assistance.

NOT PRINTING TRANSACTIONS

2.0 If the normal transactions are not printing, but the Data Capture Module's LED is flashing, ensure that the paper ticket is inserted all the way in under the print head.

Check the cable from the printer for proper connection.

Check whether normal transaction printing is working after the Data Capture Module is disconnected from the header. If it prints, then contact your NORAC Service representative for further assistance.

If still no printing occurs for normal transactions, remove the header cable connection and restore the printer connection directly to the original connection. If it prints, then contact your NORAC Service representative for further assistance.

6.0 NORAC SYSTEMS INTERNATIONAL INC. STATEMENT OF LIMITED WARRANTY

NORAC SYSTEMS INTERNATIONAL INC., also known as NORAC, warrants all control systems equipment of its manufacture to be free of defects in material and workmanship for a period of two years. This warranty period is for a period of 24 months from the date the equipment is delivered by NORAC or its authorized dealer to the purchaser.

NORAC will repair free of charge items returned within the warranty period to one of the following authorized warranty locations:

in Canada or elsewhere,
(Western Canada)
NORAC SYSTEMS INT. INC.
803 - 46th Street East
Saskatoon, SK. S7K 0X1
CANADA

(Eastern Canada)
NORAC SYSTEMS INT. INC.
62 Plant Farm Blvd.
Brantford, ON N3T 5T9
CANADA

in United States
NORAC SERVICE CENTER
400 - 42nd Street SE
Minot, ND. 58701
USA

Freight will be paid one way and returned by the same carrier unless instructed differently.

NORAC or its authorized Service Center will repair or replace, at its option, any defective part or component at no cost to the purchaser during the Warranty period. If service in the field is required NORAC will authorize on-site repairs at no charge for parts and labour. Travel time, travel and per diem expenses to and from the place where repairs are made will be charged to the purchaser at prevailing rates.

Any evidence of negligent or abnormal use, defacing or alteration of serial numbers, or repairs attempted by other than NORAC authorized personnel using NORAC certified or recommended parts, automatically voids the warranty.

NORAC will not warranty any complaints relating to inadequate installation (unless the installation was performed by NORAC), adjustments or calibration.

The forgoing states the entire liability of NORAC. Regarding the purchase and use of its equipment. NORAC will not be held responsible for any consequential loss or damage of any kind.

This warranty is in lieu of all other warranties, except as set forth above. Any implied warranty merchantability or fitness for a particular purpose is hereby disclaimed. This warranty is in lieu of all other warranties, expressed or implied